

Andrea Ebert-McNeill

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Education:

BS Degree "Magna Cum Laude" in Health Science, May 2004, Benedictine University, Lisle, IL

- Course work included Organic Chemistry, Microbiology, Cell Biology (labs included), Biochemistry, Genetics, Immunology, Toxicology, Bioinformatics Seminar and Pathogenic Microbiology
- Dean's List (all semesters)
- OSHA 40 hour training January 2003

Skills:

Chemistry lab techniques:

Titration, Recrystallization, Distillation, Filtration, Melting Point, Spectroscopy
Qualitative Determination of three unknown substances in Organic Chemistry Lab
Lab Report Write-ups for Organic Chemistry Labs

Formal Organic Chemistry Laboratory Report: "Identification of Three Unknown Organic Substances through Testing Physical and Chemical Properties and Classification Experiments"

Cell and Molecular Biology lab techniques:

Gel Electrophoresis, Antibody staining, Plasmid prep, Subcellular Fractionation, PGLO transformation, GFP isolation, ELISA, PCR, Restriction endonuclease digestion and analysis
Lab Report Write-ups for Cell and Molecular Biology Labs

Microbiology lab techniques:

Bacterial Culture, Gram staining, Phase Microscopy, Culture media preparation, Pipetting and Dilution, Differential and selective plating, Kirby-Bauer technique
Isolation and determination of an unknown organism from a culture

Computer research techniques:

Using Bioinformatics databases like BLAST, Expasy, Pubmed

Computers skills:

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Quicken

Experience:

Argonne National Laboratories (Dr. Maryka Bhattacharyya)

January 2004 to present

Research assistant

- Find a hypothesis for gene induced Cadmium-induced bone loss based on interpretation of microarray results using bioinformatics databases (computer research)
- Cell staining and examining for presence of Cd induced protein

Benedictine University, Lisle, IL,

August 2003 to December 2003

Teaching Assistant (Organic Chemistry I)

- Assisted grading papers, provided one on one base review, helped running lab exercises

August 2003 to present

Undergraduate Research in Microbiology

- Plasmid isolation in antibiotic resistant Gram+ bacteria

August 2002 to May 2003

Slough water research

- Preparation of nutrient broth, collected water samples, grew bacteria, graphed results of HPN

January 2002 to May 2002

Tegrity Computer project, "Teaching General Chemistry Lab" on the Web with Dr. Wayne Wesolowski and Eileen Clarke, M.S.

- Performed Lab procedures for Video performance, wrote scripts for Video Presentation, prepared PowerPoint Presentation for the website, made video recordings of Laboratory skills including pipetting, melting point, weighing, and transfer of liquids

Northampton General Hospital, Cliftonville, Northampton NN1 5BD, United Kingdom

June 1996 to July 1997

Phlebotomist

Dr. Schrag, M.D. in Passau, Germany

1976-1980

Lab Technician in pathology lab with phlebotomy duties

Abingdon Memorial Hospital, Philadelphia, PA

1993-1994

Volunteer in Pathology Lab at

Volunteer work:

August 2002 to present

- **LRC** Assistant (Kingsley Elementary School, Naperville, IL)

August 2003 to present

- **REACH** Project for Students with special needs (St. Raphael's Church, Naperville, IL)

Presentations:

Ebert-McNeill A. (2004) "Cadmium-Induced Bone Loss: Gene Expression Microarray-based Hypothesis for Cadmium-Induced Bone Loss", ACCA Symposium, St. Francis University

Ebert-McNeill A. (2003) "*Escherichia coli* DNA Transformation with GFP Gene, Isolation of the Plasmid DNA and Restriction Endonuclease Digestion" Formal Cell Biology Laboratory Report

Ebert-McNeill A., Klauseger K., Smith S., and Kramer J. (2003). "Agilent Technologies, "Agilent magnaporthe grisea Oligo Microarray", Cell Biology Lab Presentation

Ebert-McNeill A. Granata D. (2002). " Remedial Action Report, Austin Avenue Radiation Superfund Site", Toxicology Course Presentation